POTOMAC RIVER BASIN

01656120 CEDAR RUN AT ROUTE 646 NEAR ADEN, VA

LOCATION.--Lat. 38°38'29" long 77°30'46"î, Prince William County, Hydrologic unit 02070010, on left bank at upstream side of bridge on State Highway 646, 2.0 miles southeast of Aden.

DRAINAGE AREA.--Not determined.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1996 to January 2000 (discontinued).

REVISED RECORDS.--WDR-98-1: 1997(M).

GAGE.--Water stage recorder. Elevation of gage is 160 ft above sea level, from topographic map.

REMARKS.--No estimated daily discharges. Records good.

EXTREMES FOR PERIOD OCTOBER 1999 TO JANUARY 2000.--Maximum discharge, 2,510 ft^3/s, Dec. 14, gage height, 10.91 ft; minimum discharge, 12 ft^3/s, Nov. 24, gage height, 1.54 ft.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	547	15	35	34	---	---	---	---	---	---	---	---
2	170	18	31	31	---	---	---	---	---	---	---	---
3	96	175	27	31	---	---	---	---	---	---	---	---
4	85	76	26	65	---	---	---	---	---	---	---	---
5	231	49	24	343	---	---	---	---	---	---	---	---
6	114	38	26	115	---	---	---	---	---	---	---	---
7	68	31	50	78	---	---	---	---	---	---	---	---
8	48	28	50	63	---	---	---	---	---	---	---	---
9	40	25	42	55	---	---	---	---	---	---	---	---
10	74	23	52	111	---	---	---	---	---	---	---	---
11	196	23	206	232	---	---	---	---	---	---	---	---
12	99	22	103	112	---	---	---	---	---	---	---	---
13	64	21	72	80	---	---	---	---	---	---	---	---
14	51	21	1190	66	---	---	---	---	---	---	---	---
15	41	17	899	49	---	---	---	---	---	---	---	---
16	30	16	315	45	---	---	---	---	---	---	---	---
17	28	16	179	43	---	---	---	---	---	---	---	---
18	29	16	126	37	---	---	---	---	---	---	---	---
19	39	16	98	---	---	---	---	---	---	---	---	---
20	37	15	88	---	---	---	---	---	---	---	---	---
21	77	15	118	---	---	---	---	---	---	---	---	---
22	55	15	101	---	---	---	---	---	---	---	---	---
23	44	14	83	---	---	---	---	---	---	---	---	---
24	39	13	69	---	---	---	---	---	---	---	---	---
25	31	14	56	---	---	---	---	---	---	---	---	---
26	26	23	47	---	---	---	---	---	---	---	---	---
27	23	147	48	---	---	---	---	---	---	---	---	---
28	22	97	45	---	---	---	---	---	---	---	---	---
29	19	59	42	---	---	---	---	---	---	---	---	---
30	18	43	42	---	---	---	---	---	---	---	---	---
31	17	---	38	---	---	---	---	---	---	---	---	---
TOTAL	2458	1101	4328	1590	---	---	---	---	---	---	---	---
MEAN	79.3	36.7	140	88.3	---	---	---	---	---	---	---	---
MAX	547	175	1190	343	---	---	---	---	---	---	---	---
MIN	17	13	24	31	---	---	---	---	---	---	---	---

POTOMAC RIVER BASIN

01656120 CEDAR RUN AT ROUTE 646 NEAR ADEN, VA--Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1996 - **2000, BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	116	142	210	346	450	441	142	126	63.2	14.2	3.43	44.7
MAX	366	285	597	617	931	678	231	308	155	20.7	5.57	124
(WY)	1997	1998	1997	1998	1998	1998	1998	1998	1998	1997	1997	1999
MIN	3.90	5.65	10.8	166	108	309	69.5	21.6	2.88	6.48	1.86	2.32
(WY)	1999	1999	1999	1999	1999	1999	1999	1999	1999	1999	1999	1998

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		**FOR 2000 WATER YEAR		WATER YEARS 1996 - **2000	
ANNUAL TOTAL	32445.82					
ANNUAL MEAN	88.9				179	
HIGHEST ANNUAL MEAN					274	1998
LOWEST ANNUAL MEAN					69.0	1999
HIGHEST DAILY MEAN	2480	Sep 30	1190	Dec 14	5720	Feb 5 1998
LOWEST DAILY MEAN	.48	Aug 8	13	Nov 24	.46	Sep 15 1998
ANNUAL SEVEN-DAY MINIMUM	1.0	Aug 15	15	Nov 19	.55	Sep 11 1998
INSTANTANEOUS PEAK FLOW			2510	Dec 14	7820	Oct 19 1996
INSTANTANEOUS PEAK STAGE					16.61	Oct 19 1996
INSTANTANEOUS LOW FLOW			12	Nov 24	.34	Aug 8 1999
10 PERCENT EXCEEDS	186		174		374	
50 PERCENT EXCEEDS	31		44		48	
90 PERCENT EXCEEDS	1.8		16		2.4	

** Partial water year.
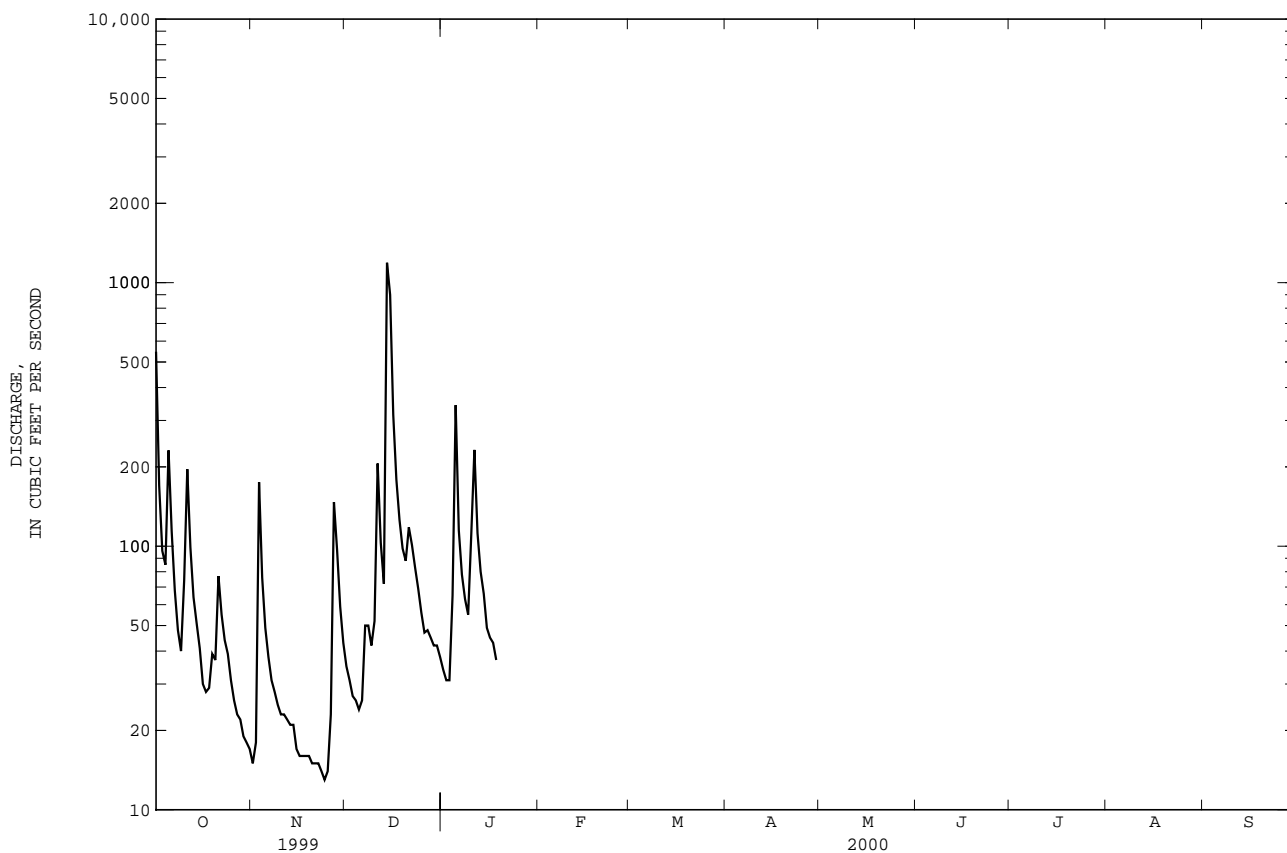
POTOMAC RIVER BASIN

01656120 CEDAR RUN AT ROUTE 646 NEAR ADEN, VA--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--October 1996 to current year.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	TIME	SAMPLE TYPE	TEMPER- ATURE WATER (DEG C) (00010)	TEMPER- ATURE AIR (DEG C) (00020)	BARO- METRIC PRES- SURE (MM OF HG) (00025)	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	OXYGEN, DIS- SOLVED (MG/L) (00300)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION) (00301)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)
OCT 19...	1045	ENVIRONMENTAL	10.7	18.0	755	39	90	10.1	99	6.8
NOV 23...	1045	ENVIRONMENTAL	12.3	16.0	761	15	196	7.8	100	7.0
DEC 13...	1045	ENVIRONMENTAL	5.2	12.5	754	70	164	8.9	99	6.7

DATE	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N) (00613)	NITRO- GEN,AM- MONIA + ORGANIC DIS. (MG/L AS N) (00623)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) (00631)	PHOS- PHORUS TOTAL (MG/L AS P) (00665)	PHOS- PHORUS DIS- SOLVED (MG/L AS P) (00666)	PHOS- PHORUS ORTHO, DIS- SOLVED (MG/L AS P) (00671)	SEDI- MENT, SUS- PENDED (MG/L) (80154)	SEDI- MENT, DIS- CHARGE, SUS- PENDED (T/DAY) (80155)
OCT 19...	<.020	<.010	.48	.45	.867	.055	.039	.025	3	.32
NOV 23...	<.020	<.010	.17	.39	<.050	.079	.027	.013	2	.08
DEC 13...	.020	<.010	.48	.63	.432	.107	.047	.031	14	2.6

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